

LISTING OF CLAIMS:

1. (Original) A vehicular braking apparatus comprising;

friction members provided facing opposite a rotor integrally rotating with a wheel;

an electric motor for rotatably interlocking with and moving a drive member that drives the friction members toward the rotor, and controlling a rotation of the wheel by pressing the friction members onto the rotor;

a rotation detecting portion for detecting a rotational amount of the electric motor;

a drive control portion for supplying a drive current to the electric motor depending on the rotational amount to rotatably operate the electric motor;

a rotation fluctuation calculating portion for calculating a fluctuation amount of the rotational amount of the electric motor; and

a vibration suppressing control portion for executing a vibration suppressing control when the rotation fluctuation amount exceeds a predetermined value.
2. (Original) The vehicular braking apparatus according to claim 1, further comprising a wheel speed sensor for detecting a wheel speed, wherein

the rotation fluctuation calculating portion calculates a rotation fluctuation cycle of the electric motor and calculates a rotation cycle of the wheel based upon the wheel speed, and

the vibration suppressing control portion executes the vibration suppressing control when the rotation fluctuation amount exceeds the predetermined value, and the rotation fluctuation cycle of the electric motor is proportional to the wheel rotation cycle.

3. (Original) The vehicular braking apparatus according to claim 1, wherein the vibration suppressing control portion temporarily changes the drive current from the drive control portion.

4. (Original) The vehicular braking apparatus according to claim 2, wherein the vibration suppressing control portion temporarily changes the drive current from the drive control portion.

5. (New) A vehicular braking apparatus comprising;

friction members provided facing opposite a rotor integrally rotating with a wheel;

an electric motor for rotatably interlocking with and moving a drive member that drives the friction members toward the rotor, and controlling a rotation of the wheel by pressing the friction members onto the rotor;

means for detecting a rotational amount of the electric motor;

means for supplying a drive current to the electric motor depending on the rotational amount to rotatably operate the electric motor;

means for calculating a fluctuation amount of the rotational amount of the electric motor;

and

means for executing a vibration suppressing control when the rotation fluctuation amount exceeds a predetermined value.

6. (New) The vehicular braking apparatus according to claim 5, further comprising a wheel speed sensor for detecting a wheel speed, wherein

the means for calculating a fluctuation amount of the rotational amount of the electric motor calculates a rotation fluctuation cycle of the electric motor and calculates a rotation cycle of the wheel based upon the wheel speed, and

the means for executing a vibration suppressing control executes the vibration suppressing control when the rotation fluctuation amount exceeds the predetermined value and the rotation fluctuation cycle of the electric motor is proportional to the wheel rotation cycle.

7. (New) The vehicular braking apparatus according to claim 5, wherein the means for executing a vibration suppressing control temporarily changes the drive current from the drive control portion.

8. (New) The vehicular braking apparatus according to claim 6, wherein the means for executing a vibration suppressing control temporarily changes the drive current from the drive control portion.

9. (New) A vehicular braking method for a vehicle in which friction members face a rotor, which integrally rotates with a wheel and an electric motor for rotatably interlocks with and moves a drive member that drives the friction members toward the rotor, the method comprising:

controlling rotation of the wheel by pressing the friction members onto the rotor;

detecting a rotational amount of the electric motor;

supplying a drive current to the electric motor depending on the rotational amount to rotatably operate the electric motor;

calculating a fluctuation amount of the rotational amount of the electric motor; and

executing a vibration suppressing control when the rotation fluctuation amount exceeds a predetermined value.

10. (New) The vehicular braking method according to claim 9, further comprising:

detecting the speed of the wheel;

calculating a rotation fluctuation cycle of the electric motor;

calculating a rotation cycle of the wheel based upon the wheel speed; and

executing the vibration suppressing control when the rotation fluctuation amount exceeds the predetermined value and the rotation fluctuation cycle of the electric motor is proportional to the wheel rotation cycle.

11. (New) The vehicular braking method according to claim 9, wherein the vibration suppressing control includes temporarily changing the drive current.

12. (New) The vehicular braking method according to claim 10, wherein the vibration suppressing control includes temporarily changing the drive current.